Irrigatof Newsletter of the Westlands Water District

NEWEST CROP REPORT SHOWS STRONG TREND TOWARD PERMANENT CROPS

Each spring, large swatches of Westlands Water District are aflame in brilliant whites and pinks as nut and fruit tree orchards begin their annual cycle of life and productivity. This pageant of color is becoming an ever larger display as more and more farming operations invest in permanent crops like fruit and nut trees to diversify their crop portfolio.

The trend to more and more permanent crops is very encouraging for farming in Westlands," said Thomas Physical Communications of the communication of the co "The trend to more and more perm Thomas Birmingham, General Manager of the District. "One of the main reasons for this trend is that our water supply has become more stable and dependable in recent years. Planting vineyards and orchards requires confidence that the water these crops require will be available well into

Since the early 1990s, as California emerged from a major drought, the number of acres planted in permanent crops —fruit and nut trees and vineyards began to slowly increase. The trend has accelerated In recent years, as the District's water supply outlook

"THE CONNECTION IS URAISTAKABLE WHEN THERE IS A RELIABLE AND ADEQUATE SUPPLY OF WATER, THE FARM-BASED ECONOMY WILL THRIVE." Marza : Burelighen Africa degradado

Since 1993, the number of acres planted in trees and vines has more than doubled in Westlands to some 64,000 acres.

In just the past three years, the number of acres devoted to permanent crops increased by more than 15 percent, while field crops declined by almost 8 percent. (The total number of acres planted in field crops still significantly outweighs the acres in permanent crops – 437,000 acres compared to 64,000 acres.)

The demand for young almond trees is currently so strong, area nurseries are telling farmers it will be 2006 or later before they can deliver trees

This trend towards permanent crops is closely linked to the District's water supply. During the first half of the 1990s, regulatory constraints on the Central Valley Project kept water allocations to west side farmers at very low levels. From 1990 until 1995, south-of-the-Delta CVP contractors saw average allocations of only 38.5 percent. The situation improved significantly in the later half of the decade as CVP contractors south of the Delta saw average allocations of better than

The connection is unmistakable. When there is a reliable and adequate supply of water, the farm based economy will thrive," Birmingham said.

As the water supply picture has improved, so has the economic autlook for west side communities.

"There are distinct advantages to growing the higher value permanent crops, both for farmers as well as for the communities that support the agricultural economy on the Valley's west side," said economist Wendy Illingworth. "On-farm incomes are higher, employment patterns ar more stable and there is more long-term work for workers and farm related businesses."

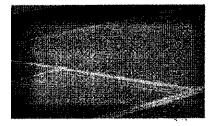
Mingworth predicted this trend toward more permanent cropping patterns in her exhaustive 2003 economic impact report on the District's land retirement program. As the District acquires and fallows land, additional water supplies become available for the other lands remaining in production
These additional supplies contribute to confidence in the future of farming in Westlands and that results in farmers making the longer-term investment in permanent crops

Since Illingworth published her economic impact report, Westlands has purchased approximately 55,000 acres of drainage-impacted land. The District plans to purchase an additional 45,000 acres over the next two years.

According to the 2003 crop report, the greatest decline in acres devoted to field crops has occurred in Acala/ Upland cotton. In just the past three years, the acreage devoted to Acala/ Upland cotton declined by more than 58,000 acres or 32 percent. Other significant declines occurred in garbanzo beans, which dropped nearly 7,000 acres or 86 percent since 2000. Sugar beets saw a 42 percent drop in acreage, process tomato production dropped by seven percent and the acreage in alfalfa seed declined 89 percent. At the same time, farmers in Westlands planted an additional 8,376 acres in almonds for an increase of

29 percent. Pistachio trees covered an additional 6,027 acres between 2000 and 2003 for a 117 percent increase. Table grape production in the District grew by 22 percent

As the statistics suggest, almonds are leading the march to permanent plantings in the District, Almond trees in Westlands out produce all other regions of California. In fact, almond trees in Westlands regularly produce 4,200 pounds



'Westlands is a dream come true for almond farmers, said Ross Borba, a principal in Borba Farms. *The climate, the soil and the expertise farmers have in water use and conservation makes this region remarkably productive for almonds *

Borba said many Westlands farmers were unwilling to make the investment required to switch to permanent crops when the water supply outlook was bleak. And, he said, there are other factors in today's farm economy that are helping farmers ome their resistance.

Many farmers who grow cotton are concerned there will be changes in international markets for cotton that could be detrimental to U.S. producers. And despite continuing Increases in production, prices for almonds remain strong

The almond industry has done a very good job developing new markets for almonds, both here in the United States and abroad," Borba said. He noted that California is expected to produce a record 1.1 billion pounds of almonds in the

"The farmers who made it through those really bad water years are starting to see a little brighter future," said Borba.
"They are survivors and survivors tend to be a pretty optimis group by nature."



On May 10, the California Agricultural Statistics Service virgounced in forecast for the 2004 almost coop. a Chopping — Tellion pounds, if the favorast held tops is means. Caldon is strong according will grow is a percent over the previous year.

Usually is Europer order the DOC Familian for his st vould be followed by a sharp Grop in prices as preducers and poyer; alike a hidpate an everyopey.

But alongeds in Culture is one oblike other props. Prices have remained peablishly strong despite the decrease in productivity. In April Norgare Supreme shootd irites bir \$3.35 per pound, tergety because af strongvodmilde demand, apgressive instacting programs, a sear U.S. dollar and a disappointing Spenich tropp

According to the Almond Brazel of California, the state produces more than Bil peacers of the world's almonds and needs 100 becomes of the almonds consumed in ilve United 5ta és.

STATEWIDE, ALMONDS WERE WORTH MORE THAN ST RILLING DOLLARS IN 2007 AND REPRESENT THE STATE'S NUMBER ONE AGRICULTURAL EXPORT.

Starpweide, although were worth more than 5 Billion collars in 2003 and representative starts. number dre agricultural expert. Pres no spourcy James preest of \$100 million var materiments. la 2011 or 70.000 perss, More clarchall of that production took place in Westlands, the most productive almost producing region in the start

combination of spongide mand and stable prices has harped to fuel the trend toward might permanent trips plantings in West and Life tweet 2000 and 2003 farmers added more than 8,000 PERMANENT CROPS GOOD

News for Westside Economy

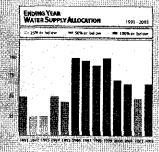
SHIFT IN CROPPING PATTERNS BRINGS SHIFT IN WATER DEMAND

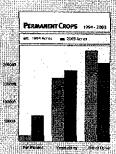
In the spring of 2003. Westlands Water District or veitled a detailed study that examined the likeby economic impacts of a proposal to purchase up to 200,000 acres of distinge impacted ferm land, take them out of production and reallocate the water to the tensining lands. This study determined that their an insual period of distinction, stabilizing the District's water supply would likely Yes ut in farmers investing in higher value permanent crops, such as thut and now peers and vinewards.

According to the latest crop report, the movement appears to be happening ulready.

"It should not come as a sorprise to anyone their farmers, if they have the weiter they need, will move into crops with higher returns" said Wendy Brigworth, author of the ground breaking 2003 Analysis of Economic Impacts of Proposed Land. Returnment in West Ands Water District. That's good news for farmers and good news for the communities on the west side.

Permanent crops such as almords have a number of distinct advancings for communities. While the total number of workers needed at harvest may be fewer than with field of one, permanent crops require more year injund work. Workers and communities from fewer of the boom bust cycles that keep west side unemployment figures fright. Ag related businesses, such as equipment providers, also do better because permanent crops, create more stable, long-term economic foundations upon which small businesses thrive.





Westlands farmer Vince Marshall of Gragnani Parms said Shrinking farm profits are putting thereasing pressure on farmers to reduce fabor costs through technology, muse efficient irrigation; and transgenic crops. FOn the other hand, personnent crops provide as readier stream of work with higher wages for workers, "said Marshall, who planted just under 500 acres of almonds and 100 acres of wine grapes this past year.

"It should not come as a surprise to anyone that farmers, if they have the water they need, will move into crops with high returns"

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In her economic impact study, l'Engueoth estimated that in 20 years, land rethernort would result in gross revenues Increasing 40 percent from erchards in Westlands compared to revenues if the District book no action to stabilize water supplies. During the same period, she prediced cotton revenues would decrease 28 percent, Asso in this time, Ill ingworth said total employment in the District would increase by 1500 jobs.

"When you see farmers putting in orchards and vineyards that won't start producing those for several years, you are seeing farmers who are generally optimistic about the future. It means they are much more likely to be here for the long haut." thingworth said. As more and more Westlands farmers switch to permanent costs like orbatics and vireyands, the Dispirit can expect to see changes in the way water is used, virtually all of the new orchards being planted tuday are bring in maps sold with highly suphasticated drip by terms that all lew trees to use more of the water applied computed to other migallion methods.

"Dip system can irrigate copy with significantly less water than is required by other more common strigetion methods," and a report by the University of Callionna's Dinasion of Agricultural Services, "For example, young on hards in rigated by a flux system may require any one half as much water as those under sprakler us surface inguitant."

Orchards and unevarids also have emitorinental benefits for the District, they generally require flower pesticides to manage pests and their is less dust associated with cultimat practices. In false, new techniques are being developed for among the atmost harvest reduce dust during the atmost harvest.

The increasing names of act of planted in permanent crops also will require westbands to monitor demand for water in certain parts of the District. Because the new dop systems before smaller violates of water compared to other systems of water compared to other systems, the summer monitor may require the systems both a combinatority. That means it one eases of the District.

become largely devoted to orchards or vineyards, the decemb for water could exceed the design Departy of the District's water distribution system.

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Currently, a variety of different craps found in his of diff, and sortische in teation, powings a degree of floribiting that allows the Diedicing balance he demand for were arranging alone with the Dienect's ability to deliver it.

"It's not a question of whether there is enough water... It's a question of whether the distribution system has enough capacity to get it to farms when it is needed."

That personal Manager for Resources

"It's not a question of whether there's enough water it can sometimes be a question of whether the Dising's distribution system of pumps, and underground opes that convey water from the CVP canals has enough capacity to get it to farms when it's necrosid," said that services in the capacity to get it to farms when it's necrosid, said that services in the services when it is necrosid, said to determine, be pump for each Manager for less duries. The are currently evaluation individual pipes in capacity and demand to determine where the surposs which is to determine where there is now in the our farmers, some or the most efficient or their world in terms of water using some on mile sure we can delive the water when and where they need it."

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